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ABSTRACT OF THE DISCLOSURE

5 A gamma ray imaging system generates and displays an
image signal which is representative of an image of a
gamma ray emitting source. The imaging system is
particularly well suited for use in all phases of the
nuclear power industry, as well as in the field of
nuclear medicine. The preferred embodiment of the gamma
ray imaging system basically includes a coded mask for
receiving radiation emitted by a source and generating a
coded shadow therefrom, a position sensitive detector
10 situated with respect to the coded mask to allow the
coded shadow to impinge on the detector, the detector
generating a coded optical signal in response thereto, an
array of charge coupled devices being responsive to the
coded optical signal and generating a coded electrical
15 signal in response thereto and a signal processor being
responsive to the coded electrical signal and decoding
the coded electrical signal to generate an image signal
which is representative of an image of gamma ray emitting
source.